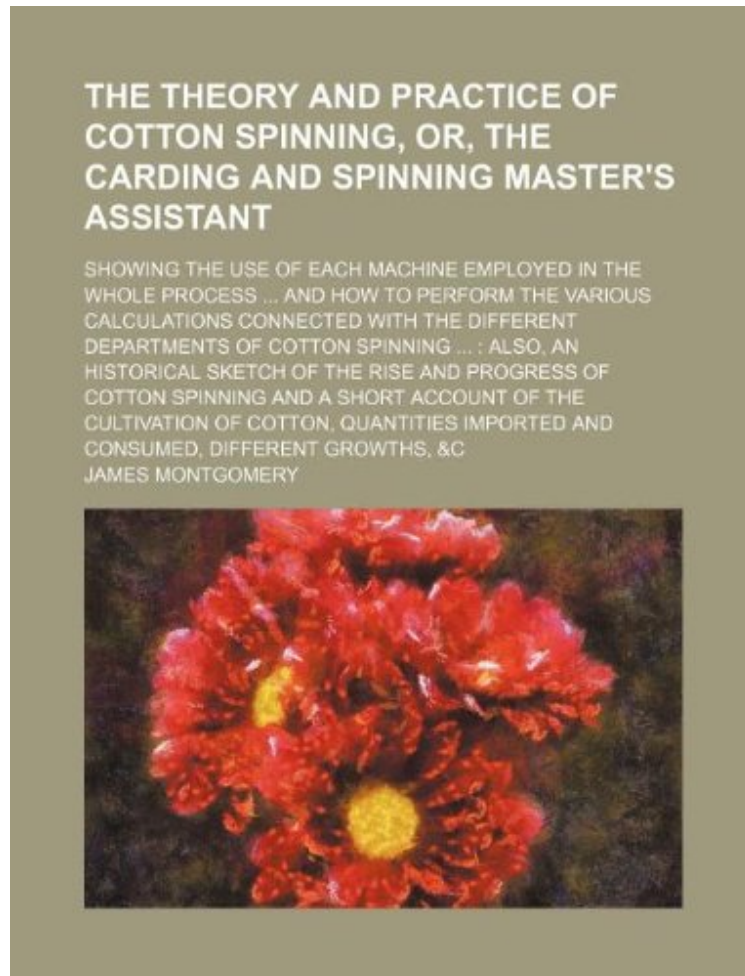


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The theory and practice of cotton spinning, or, The carding and spinning master's assistant; showing the use of each machine employed in the whole ... with the different departments of cotton s

James Montgomery

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1836 Excerpt: ...that quantity of which it is otherwise capable. Its produce per spindle seldom exceeds 4 hanks per day of 12 hours, and even this is above the average. Mr. Henry Gore, machine-maker, Manchester, obtained, in December 1831, a patent for a peculiar throstle spindle. His improvement relates to those parts which are called the collars, or upper bearings of the spindles, retaining them in vertical position as they revolve. For the ordinary collar he substitutes a tube made fast at the lower end to the spindle rail, in the same manner as the ordinary collar is fixed therein; this tube stands in a vertical position above the rail, and is interiorly larger in diameter than the spindle which passes through it, except at the upper end, which rises up into the hollow within the barrel part of the bobbin: this end is made to fit the spindle exactly, and forms its collar, or upper bearing; the upper bush of the wooden bobbin is fitted upon the spindle as usual, but the lower bush is bored out larger, and made to fit the outside of the tube, so as to slide freely up and down upon it. The bobbin rests on, and traverses along with the coping rail, and, indeed, the machine is worked every way in the same manner as the common throstle frame. An improvement has been made on the above, by fixing the tube on the coping rail instead of the spindle rail, by which means the tube traverses up and down the spindle along with the bobbin and coping rail, which causes the spindle to wear much longer, makes it more convenient for oiling, (which is done with a brush dipt in the oil and rubbed across the spindles when the lift is at the top) and when the bobbin is at the top of the spindle, the tube is nearly there also, which keeps the top of the spindle always steady. By this improve...